

(19) 世界知的所有権機関  
国際事務局



(43) 国際公開日  
2001 年 2 月 8 日 (08.02.2001)

PCT

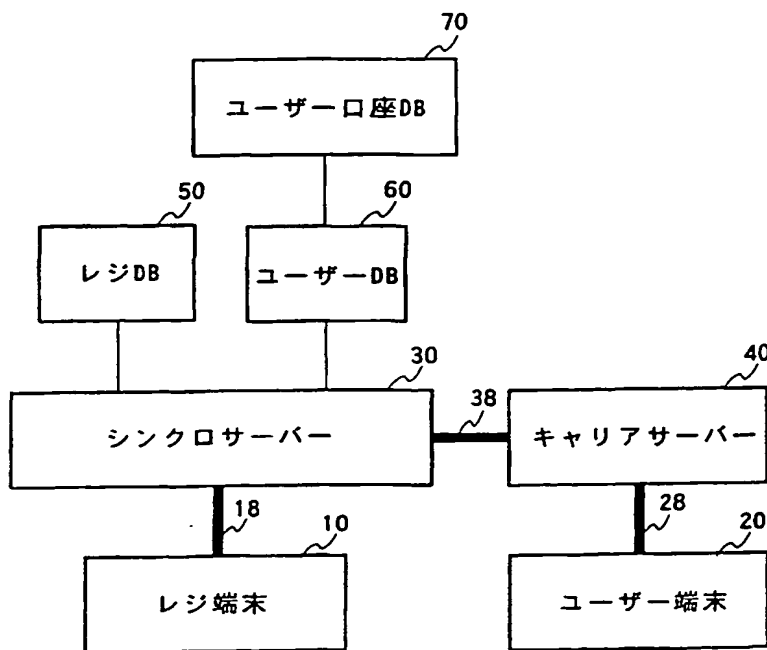
(10) 国際公開番号  
WO 01/09807 A1

- (51) 国際特許分類<sup>7</sup>: G06F 19/00 // 157:00 (72) 発明者; および  
(21) 国際出願番号: PCT/JP00/02014 (75) 発明者/出願人 (米国についてのみ): 中島啓一 (NAKA-JIMA, Keiichi) [JP/JP]; 〒104-0032 東京都中央区八丁堀1-7-7 イーマークシステムズ株式会社内 Tokyo (JP).  
(22) 国際出願日: 2000 年 3 月 29 日 (29.03.2000)  
(25) 国際出願の言語: 日本語 (74) 代理人: 龍華明裕 (RYUKA, Akihiro); 〒160-0022 東京都新宿区新宿1丁目24番12号 東信ビル6F Tokyo (JP).  
(26) 国際公開の言語: 日本語  
(30) 優先権データ: (81) 指定国 (国内): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.  
特願平 PCT/JP99/04178  
1999 年 8 月 2 日 (02.08.1999) JP  
(71) 出願人 (米国を除く全ての指定国について): イーマークシステムズ株式会社 (E-MARK SYSTEMS INC.) [JP/JP]; 〒104-0032 東京都中央区八丁堀1-7-7 Tokyo (JP).

/続葉有/

(54) Title: ELECTRONIC SETTLEMENT SYSTEM, AND SETTLEMENT DEVICE AND TERMINAL

(54) 発明の名称: 電子決済システム、決済装置及び端末



70...USER ACCOUNT DB  
50...REGISTER DB  
60...USER DB  
30...SYNCHRONOUS SERVER

40...CARRIER SERVER  
10...REGISTER TERMINAL  
20...USER TERMINAL

(57) Abstract: A simple, safe electronic settlement system. A user terminal (20) such as a portable telephone is connected to a synchronous server (30) at a store by radio. A register terminal (10) in the store is connected to the synchronous server (30) through a leased line. The register terminal receives trade identification number for identifying the trade from the synchronous server and notifies the user of it. The user inputs the trade identification number into the user terminal to send it to the synchronous server. The synchronous server completes the settlement between the register and user terminals correlated with each other by means of the trade identification number. The register terminal authenticates the user through the synchronous server. Since the user completes the settlement without allowing the shop to know the user's personal information including the credit card number and the password, the security is improved.

/続葉有/

WO 01/09807 A1

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/02014

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> G06F19/00 // G06F157:00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> G06F19/00, G06F 17/60, G06F 15/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1926-1996 Jitsuyo Shinan Toroku Koho 1996-2000  
Kokai Jitsuyo Shinan Koho 1971-2000 Toroku Jitsuyo Shinan Koho 1994-2000

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US, 5608778, A (Lucent Technologies, Incorporated), 04 March, 1997 (04.03.97) & CA, 2156206, A, C & EP, 708547, A2 & JP, 8-096043, A Paragraph; "These deficiencies are overcome with a slightly altered approach..."	27, 28
X	WO, 98/21677, A1 (Matsushita Electric Ind. Co., Ltd.), 22 May, 1998 (22.05.98) & CN, 1212773, A & EP, 910028, A1 & JP, 10-198739, A Figs. 43, 36(b) (d)	27, 28
X	WO, 99/09502, A1 (Matsushita Electric Ind. Co., Ltd.), 25 February, 1999 (25.02.99) & AU, 98-86484, A1 & CN, 1246941, T & EP, 950968, A1 Figs. 84, 135(b) (d)	27, 28
Y	JP, 10-289267, A (Sony Corp.), 27 October, 1998 (27.10.98) (Family: none) Fig. 24 (S159-S164)	1-19, 27-53

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

\* Special categories of cited documents:  
"A" document defining the general state of the art which is not  
considered to be of particular relevance  
"E" earlier document but published on or after the international filing  
date  
"L" document which may throw doubts on priority claim(s) or which is  
cited to establish the publication date of another citation or other  
special reason (as specified)  
"O" document referring to an oral disclosure, use, exhibition or other  
means  
"P" document published prior to the international filing date but later  
than the priority date claimed

"T" later document published after the international filing date or  
priority date and not in conflict with the application but cited to  
understand the principle or theory underlying the invention  
"X" document of particular relevance; the claimed invention cannot be  
considered novel or cannot be considered to involve an inventive  
step when the document is taken alone  
"Y" document of particular relevance; the claimed invention cannot be  
considered to involve an inventive step when the document is  
combined with one or more other such documents, such  
combination being obvious to a person skilled in the art  
"&" document member of the same patent family

Date of the actual completion of the international search  
27 June, 2000 (27.06.00)

Date of mailing of the international search report  
25 July, 2000 (25.07.00)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/02014

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP, 10-207946, A (Computer Consulting K.K.), 13 August, 1998 (13.08.98) (Family: none)	1-19, 27-53
Y	JP, 11-096252, A (Hitachi, Ltd. et al.) 09 April, 1999 (09.04.99) (Family: none)	1-19, 27-53
Y	JP, 3-282763, A (NEC Corporation), 12 December, 1991 (12.12.91) (Family: none)	19
Y	JP, 9-116960, A (Fujitsu Limited), 02 May, 1997 (02.05.97) (Family: none)	37
Y, P	EP, 935221, A2 (Mitsubishi Electric Corporation), 11 August, 1999 (11.08.99)	36
A, P	& JP, 11-224236, A See the fig. 11 (SP2B-SP12A-SP20A)	20-26
A	WO, 97/49074, A1 (VeriFone Incorporation), 24 December, 1997 (24.12.97) & AU, 97-36406, A1 & US, 5889863, A Section; "Thread-Safe vPOS-TID Allocation"	1-53